



MISSOURI DEPARTMENT OF TRANSPORTATION  
250 CFM AIR COMPRESSOR SPECIFICATIONS

The purpose of this specification is to secure a complete portable, self-contained (fuel and electrical not reliant on truck), minimum 250 CFM rated capacity air compressor at 100 psig. The rated pressure shall be measured after oil separation.

CFM rated capacity will be construed to mean actual capacity at full load speed (RPM) achieved through screw air-end as described in Manufacturer's advertised literature and specifications.

ENGINE – The engine shall be of four (4) cylinders, diesel driven, standard equipped unit with a 12 volt electrical system including battery, minimum 2 quart line oiler, all accessories, controls, instruments and an electric hour meter. It will be equipped with a cold weather starting system.

INSTRUMENTS - Gauges must show fuel level, discharge air temperature, air discharge pressure gauge, engine temperature, engine oil pressure, voltmeter, tachometer, hour meter and engine water temperature gauge. Instruments and controls shall be clearly labeled and accessible without opening side panels or hood.

The unit will have shutdown protection system for high engine temperature, low engine oil pressure and high discharge oil temperature.

The cooling system will be capable of maintaining internal temperatures of no more than 20°F above the outside air temperature.

The fuel system should be a no-rust polyethylene fuel tank or equivalent.

PRESSURE - Minimum operating PSI of 100 with an adjustable rate from 80 to 130 PSI.

COMPRESSOR - Minimum 250 CFM at 100 psig, rotary screw, direct drive type, minimum 127 mm air end. Two (2), one inch ID” air discharge outlets required. Line 1 should have an oil and water separator, and Line 2 should have a water separator.

TRAILER - Unit to be spring mounted on a high speed over the road type two-wheel trailer with pneumatic type tires of not less than size and ply recommended by the manufacturer. Unit shall have heavy-duty steel or polyethylene fenders.

HITCH AND THIRD WHEEL - Trailer will have a 3" ID pintle type hitch eye, with transport chains, welded onto a heavy-duty A-frame or straight tongue type drawbar. Unit will have a retractable laminated or semi-pneumatic rubber-parking wheel.

ENCLOSURE - Housing shall be fully enclose compressor providing weather and noise protection. All doors shall be lockable with no-rust aluminum hinges and pneumatic lift springs. Tool boxes shall be internal.



SAFETY - Must meet US EPA sound requirements of 76dBA at 7 meters.

COLOR - Color to be manufacturer's standard color over a prime coat.

WARRANTY – The air compressor should be warranted to be free of defects in material and workmanship on all components for one year from time of delivery or manufacturers warranty, which ever is greater. The air end shall be warranted for two years.

The Missouri Department of Transportation Commission reserves the right to waive technicalities and to reject any or all bids and no bid is final until formally accepted by the Commission.